

# THE DOCK & HARBOUR AUTHORITY

## Index to Volume LIII

May 1972—April 1973 Nos 619-631

### A

Aberdeen, 342, 418, 506  
Algeria, Oran, 292  
Amsterdam looks hopefully to the future, 304  
Anatomy of ports and shipping, 137, 223  
Anglo-Spanish consortium boost for Liverpool, 95  
Another record year for Lloyd's Register 13  
Antwerp's landleg success, 481  
Application of a computer system to hydraulic problems of harbour design, 82

#### Australia:

Adelaide, 162, 344  
Bell Bay, 76, 289  
Botany Bay, 162, 463  
Brisbane, 35  
Dampier, 381  
Darling Harbour, 330  
Darwin, 35  
Eden, 509  
Geraldton, 463  
Glebe Island, 420  
Hay Point, 200, 289, 463  
Hobart, 290  
Melbourne, 381  
Narooma, 509  
Newcastle, N.S.W., 162  
New South Wales, 344  
Perth, 35  
Pilbara, 463  
Queensland, 420  
Sydney, 247, 509  
Townsville, 200  
Ulladulla, 381  
Westernport, 463  
Australia bridge project, 268  
Avonmouth, 33

### B

Bahamas, 344  
Bahrein, 163, 199, 292  
Barcelona, Expansion of the port, 227  
Barrow, 506  
Bauxite berth at Takoradi, 5

#### Belgium:

Antwerp's landleg success, 481  
Belgium to deepen part of Scheldt, 368

#### Berthing:

Berthing and Mooring ships, 61  
Jetprodding into port, 329  
Book Reviews, 17, 61, 101, 185, 234, 277, 325, 366, 404, 446, 493  
Boom in new ship ordering, 498  
Boom year in prospect for U.K. shipyards, 406  
Brazil, 247  
Sepetiba Bay, 119  
Bridge project in Australia, 268  
Brighton, 244, 417

### B—continued

#### Bristol:

Docks Board construction, sandwicks used for, 355  
Port news, 74  
Britain's port industry, 42  
British consortium design floating breakwater, 358

#### British Honduras:

Belize, 292  
British ports equipped to meet all-comers, 98  
BTDB, Difficult year ahead warns chairman, 96  
Brittany to Plymouth on wheels, 433  
Building ships by TV, 51  
Bulk carrier ports, Planning, investigation and design, 254  
Buoy tracking system for water movement surveys 391  
Bulgaria, 164

### C

#### Canada:

Port news, 245  
Canada's container facilities show good results, 239  
Canadian Lakes, Icefree navigation to, 439  
Canadian port operations under review, 356  
Canadians concerned over U.S. Dredging monopoly, 29  
Britannia, 420  
Halifax, 164  
Isle Verte, 290  
Montreal, 462  
New Foundland, 291, 507  
Port Cartier, Dock construction, 323  
Quebec, 290, 380, 462  
St. John, New Brunswick 75, 441  
St. John, New Foundland, 24  
Toronto, a city blessed with foresight, 396  
Toronto, 456, 508  
Canal, New U.S. project, 369  
Cargo Airships, U.K. Government urged to support, 476  
Cargo handling and transport news, 21, 66, 106, 152, 205, 238, 293, 327, 376, 410, 457, 504  
Cargo handling equipment, 36, 66, 77, 121, 154, 165, 205, 239, 250, 294, 296, 299, 328, 330, 346, 376, 411, 412, 511

#### Caribbean:

Barbados, 246  
Catamarisation in Canada, 237  
Catamaran workboat, 374

#### Ceylon:

Central organisation recommended for, 72, 240  
Freight Bureau, 328  
Colombo, 200  
Changing face of Morocco, 361  
Channel tunnel by 1980, 440

#### Chile:

Port news, 342  
Guacolda, 35

#### Classification societies:

Lloyds, 13  
Det Norske Veritas, 25

## C—continued

Collisions at sea report, 318  
Common ports policy for EEC 395  
Company News, 39, 79, 123, 169, 209, 251, 300, 348, 385, 423, 468, 513  
Computerisation, 122  
A-1 Computer for Lloyd's, 373  
Building ships by TV, 51  
Computer keeps cargo rolling, 327  
Computer will help container efficiency, 504  
Quayside computing, 38  
Application of computer system to hydraulic problems of harbour design, 82  
Concrete pier for Newport News container traffic, 30  
Conference forthcoming, 402

### Containers:

Canada's container facilities show good results, 239  
Cellular containerships, 68  
Further growth in British container traffic, 293  
Global container terminal, 107  
International organisation for standardisation, 2  
Italians join container market, 504  
Magromover concept, 66  
Need for expansion in Wellington, 108  
New concrete pier for Newport News Container traffic, 310  
New generation of containerships not imminent, 195  
New lifting beam reduces stacking costs, 23  
New refrigeration installation, 377  
Semi-container carriers for Polish line, 23  
Singapore enters the container age, 108  
Swedish containership exceeded 30 knots on trials, 111  
Tractor-trailers at container berths, 87  
World's largest container ship, 22  
Copenhagen, New port records, 6  
Construction of Autobahn tunnel under Elbe, 314  
Conventional cofferdam method eliminated, 52  
Correlation of Siltmeter data, A new Approach, 126  
Critical year for Liverpool, 388  
Curacao, 463

## D

Damaged quay at Felixstowe quickly repaired, 270  
Death knoll for Italy's passenger fleet, 457

### Denmark:

Copenhagen, 6  
Depth measurement by leadline in flowing water, 133  
Design concept for increased efficiency in graving dock construction, 217  
Developing countries, Dredging projects in, 113  
Difficult year ahead warns Docks Board chairman, 96  
Docking, 38  
Dock construction at Port Cartier, 323  
Docks pay off expensive but worth it, 434  
Dover, 341  
Dover Strait, 289  
Dover Strait Separation Scheme, 11

### Dredging:

Canadians concerned over U.S. dredging monopoly, 29  
First LASH shipment of dredger, 368  
Hydraulic transfer of sand for beach restoration, 155  
Navigational study of Torres Strait, 156  
New technique used in Dunkirk harbour extension, 413  
Package deal service, 368  
Sea Islands, 27, 456  
WODCON meets in Hamburg, 503

### Dredging projects:

Australia, Sand dredging in, 157  
Belgium, 368  
Brazil, 72

## D—continued

Cadiz, 339  
Capetown harbour, 73  
Ceylon, 72, 240  
Developing countries, 113  
Dundalk Channel, 115  
Dunkirk, 413  
Grangemouth, 29  
Humber, 287  
Kharg Island, 414  
Kyle Bay, Sydney, 243  
Lymington, 97  
Mexico, 29  
Milford Haven, 203  
Mombasa harbour, 73  
Montrose, 339  
Newcastle, N.S.W., 156, 287  
Northern projects (U.K.), 241  
Preston Docks, 413  
Rotterdam, 368  
Scottish projects, 156  
Shetlands, 242  
South Louisiana, 241  
Tilbury, 156  
Toronto, 456  
Tubarao, 203

### Dredging vessels:

Breco equipment for 2 new dredgers, 116  
Breco self discharge for converted vessel, 242  
British dredging fleet, 243  
Bucket dredger for Algeria, 502  
Building indoors at new yard, 337  
Cutter suction dredgers, 414, 502  
Delta Bay trailing hopper dredger, 203  
Dutch built ship for Poland, 116  
Hydraulic cutter head dredger for Mexico, 29  
Hydroklapp barges, 422  
Japanese built dredger in operation at Colombo, 155  
Manitowoc 3900 W Clamshell, 31  
Mini dredger for Chichester canal, 502  
Indonesia tin dredgers, 204  
Russian dredger order for Yugoslavia, 156  
South African order for German yard, 116  
Suction hopper dredgers, 72, 414, 503  
Trailing suction hopper dredgers, 286, 456  
W.D.A. Resolution 31, 156  
W.G. Packman grab dredger, 286  
World's first hover dredger, 338

Dubai, 199

Dundee, 33, 244

## E

Economic appraisal of Foulness project, 472  
Ecuador, 343  
EEC, common ports policy, 395

### Eire:

Shannon Estuary, 33  
Bantry Bay, 342  
Galway, 342  
Ellesmere, 461

### El Salvador:

Acajutla, 200  
Enforcement of Dover Strait Separation Scheme, 11  
Expansion at Barcelona, 227  
Even busier future foreseen in Hong Kong, 193

## F

### Felixstowe:

Port News, 342, 412  
Damaged quay, 270

## F—continued

Fendering, 208  
A new look at fendering systems, 9  
Hydraulic gravity of fendering, 482  
Ferry terminal at Fishguard, 180  
Fifty Years ago, 445, 497  
Fiji, 200  
Financial considerations behind LNG carrier construction, 12  
Financing port projects, 403  
Fishguard ferry terminal, 180  
Floating breakwater, British consortium design for, 358  
Floating dock, West German, goes to Greece, 235  
Floating rubber pipeline, World's largest, 455  
Floodgates for narrow shipping lanes in tidal waters, 399  
Folkestone, 117, 197  
Foulness, 14, 16, 58, 472, 487  
Fowey, 378

## France:

Cannes, 161  
Le Havre, 246, 379  
Marseille Fos, 426, 507

## Freight Services:

Brittany to Plymouth on wheels, 433  
Ceylon-China Liner service, 152, 329  
Ceylon Freight Bureau, 328  
Cross-channel links, 22, 68, 152, 293, 375  
Europe/New Zealand independent container service, 238  
Felixstowe, 412, 458  
Fleetwood/Eire service, 505  
Far East Trade, 239, 505  
Hull third container service, 376  
Israeli line introduces new trade route, 22  
Landbridge, 153  
North Sea expansion, 23, 66, 294, 411  
Road haulage centre for Amsterdam, 505  
Seaforth/Riga, 412  
Southampton, 412  
Trans-Atlantic services, 108, 109, 293, 330, 410, 411  
Trans Pacific link, 458  
Trio container service, 22, 68

## G

Game port people play, 307

## Germany:

Construction of Autobahn under Elbe, 314  
New bridge over Elbe, 398  
Wilhelmshaven, 380

Ghana, 5, 119

Gibraltar, Naval outpost to tourist port, 309

Globtik may build first megatonner, 85

## Grangemouth:

Port News, 29, 378  
Dredging new lock approaches, 196

Graving dock construction, Design concept for increased efficiency, 217

Greenock, 74

## H

Harwich, 74

## Helicopter:

Platform for Wolf Rock lighthouse, 488  
Trinity House extends operations, 95

Heysham, 417

## Holland

Amsterdam 33, 304  
Enkhuizen, 291  
Maasvlakte, 507  
Rotterdam, 368

## H—continued

Scheveningen, 118  
Terneuzen 291

## Hong Kong:

Port News, 162, 381, 419  
Even busier future, 193  
Reclamation, 109  
Tunnel will boost Colony's economy, 147

Hover dredger, World's first 338

Hovermarine penetrates River Scheldt, 21

Hover platform, 422

Howden, 378

Hull, 32, 117, 161, 238, 288, 340, 417, 460, 506

## Hungary:

Budapest, 200

Hydraulic gravity of fendering systems, 482

Hydraulic problems of harbour design, Application of computer systems to, 82

Hydraulic transfer of sand for beach restoration, 155

## I

Icefree navigation to Canadian lakes, 439

Immingham, 411

Indecision over New U.S. canal project, 369

## India:

Calcutta, 34  
Kandla, 463  
Madras, 34  
Mormagoa, 34  
Vizagapatnam, 508

Indonesia, 247

## Inland waterways:

Navigating the heights, 363

Integrated communications system at Southampton, 130

I.S.O. Freight Containers, 2

International loans inadequate for developing countries, 403

Ipswich, 244, 341

## Iran:

Kharg Island, 292

## Iraq:

Fao, 199

## Israel:

Ashdod, 74  
Haifa, 74

## Italy, 419

Padua, 118  
Passenger fleet, 457

## J

Jamaica, 420

Jamaica Bay Pier, New York, 88

## Japan:

European yards unite against Japanese monopoly, 282

Japan's key to shipbuilding success, 201

Kobe, 292

## L

## LASH

Brazil yard gains barge order, 26

First LASH shipment of dredger, 368

Munchen launched at Belgian yard, 110

Trans-Pacific LASH service proposed, 291

Unique tug for UK LASH service, 111

U.S. Barges contract, 70

## L—continued

### Lebanon:

- Beirut, 462
- Legal Notes, 63, 183, 365, 401, 443
- Legislation impeding nuclear ship development, 54
- Lerwick, 459, 506
- Letters to the Editor, 16, 58, 100, 187, 276
- Lighthouse, Helicopter platform for, 488
- Liquid natural gas:
  - Financial considerations behind carrier construction, 12
  - World's largest LNG vessel, 235

### Liverpool:

- Port News, 161, 288, 346, 417, 507
- Anglo-Spanish consortium boost for Liverpool, 95
- Consultants to aid Mersey Docks, 390
- Critical year, 388
- Port in the 70's, 47
- Port and modern ship operations, 49
- Seaforth dock opened, 45

### Locks:

- Dredging at Grangemouth, 29
- Ship lock simulation facility, 86
- London, 340
  - London Bridge—a tale of three bridges, 430
- Lorry appointment schemes in British ports, 489

### Lymington:

- Dredging for pleasure, 97

## M

- Macao, 292
- Made in Britain, 36, 77, 120, 165, 207, 248, 295, 345, 382, 421, 464, 510

### Maplin:

- Foulness Seaport, 16, 58
- Economic appraisal, 472
- Model gives momentum to Maplin, 487
- Proposals begin to take shape, 14

### Marinas:

- Dredging for Pleasure Lymington, 97
- Medway Scheme proposed, 359
- Marine Engineering, 36, 37, 70, 71, 248, 249, 250, 295, 336, 346, 383, 408, 451, 453, 500, 501, 510
- Marseilles-Fos, an ambitious venture, 426
- Measurement by leadline in flowing water, 133
- Milford Docks, 341
- Milford Haven, 378
  - New navigational aids, 265

### Million ton tankers:

- Caisson aboard ship megatonner, 334
- First half million tonners, 201
- Globtik may build first megatonner, 85
- Still will be a hazard, 158
- Mombasa harbour, 73

### Morocco:

- Changing face of Morocco, 361
- Tangier past and present, 175
- Multi product bulk terminal, 212

## N

### Naval outpost to tourist port—Gibraltar, 309

### Navigation:

- Enforcement of Dover Strait Separation Scheme, 11
- Icefree Navigation to Canadian Lakes, 439

## N—continued

- Integrated communications system at Southampton, 130
- Navigating the Heights, 363
- Navigational aids for Milford Haven, 265
- Navigational equipment 37, 77, 78, 120, 121, 166, 167, 207, 283, 345, 347, 384, 466, 512
- New bridge over River Elbe, 398
- New concrete pier for Newport News container traffic, 310

### New Hebrides:

- Vila, 76, 247
- New look at fendering systems, 9
- New pier in New York's Jamaica Bay, 88
- New port records at Copenhagen, 6
- Nicaragua, 76

### North Sea:

- Challenge to British industry, 220, 221
- Island feasibility group, 456
- Northern Ireland:
  - Londonderry, 245

### Norway:

- Narvik, 119
- Norwegian Ship Research Institute formed, 201
- Nuclear ship, legislation impeding development, 54

## O

### Offshore industry:

- Bonanza, will it by-pass Britain? 477
- Dredging at Montrose or supply base, 339
- Drillship perfects dynamic positioning, 334
- Dundee, 33
- Finnboda to build offshore structures, 237
- Lively season for offshore industry, 182
- Nigg graving dock, 221
- North Sea challenge to British industry, 220
- Offshore contracts, 336
- Offshore equipment, 122, 167, 384
- Offshore terminal may solve America's impending energy crisis, 65
- Pipelaying barges third generation, 334
- Self elevating platform order, 409
- Shetland, 242, 461
- Oil pollution prevention in the coastal and offshore environment, 372
- Oil spillage clean up plan, 472
- Optical wave recorders, 177
- Ore exports, single buoy mooring system expedites, 319
- Ore port, world's largest under construction, 263

## P

### Panama:

- Vacamonte, 247
- Papua, New Guinea:
  - Lae, 35
- Parkeston Quay, 216
- People, Ports and Places, 18, 59, 103, 150, 189, 230, 279, 331, 370, 415, 448, 495

### Peru:

- Pucallpa, 290
- Peterhead, 197

### Piling:

- equipment, 121
- Concrete pier for Newport News container traffic, 310
- New pier in New York's Jamaica Bay, 88
- Sheerness enters the big league, 172
- Stability of piles in flowing water, 352
- Pilotage Authorities U.K. Association, 324
- Planning investigation and design for large bulk carrier ports, 254
- Plymouth, 32, 379, 506



30

07, 283,

ng energy

vironment,

331, 370,

310

ports, 254

P—  
Poll

Por  
Por  
Por  
Por  
Por  
Por

Por

Pre  
Pre  
Priv  
Pur

Qat

Ras  
Rec  
Rep  
Ris

Rol

Rot  
Run

Sain  
Sal

Sch

Sea

Sea  
Sec  
Sha  
She

She  
Ship

Ship

Ship

## P—continued

### Pollution:

- Buoy tracking system for water movement surveys, 391
  - Clean up plan for oil spillage, 474
  - Inert gas system installation at sea, 283, 453
  - Magnetic tagging to detect polluters of high seas, 335
  - Oil pollution prevention in coastal and offshore environment, 372
  - Pollution—prevention better than cure, 321
  - Tank cleaning 383, 421
  - U.S. pollution rules half dredging in 'Frisco Bay, 286
  - Vessel investigates Great Lakes pollution, 160
  - Waterwitch to fight waterways pollution, 204
- Ports and Modern Ship operations, 49
- Port competition, New techniques increasing, 438
- Port of Liverpool in the 70's, 47
- Portsmouth, 341
- Port Cartier, Dock Construction at, 323
- Port Talbot, 74

### Portugal:

- Sines, 34, 119
- Prefabrication, new shipbuilding techniques perfected, 373
- Preston, 418
- Private ports excluded from dock scheme, 444
- Purfleet, 244, 459

## Q

### Qatar:

- Umm Said, 163

## R

- Rashid, Port where sands of time meet the future, 273
- Redcar, Tees ore terminal, 461
- Report on collisions at sea, 318
- Rise and Fall of the Sea, 215

### Roll-on, Roll-off services:

- Ferry terminal operations at Fishguard, 180
  - North Sea expansion, 23, 66
  - Ships for Australian steel operations, 284
- Rotterdam looks to bigger tankers, 368
- Runcorn, 342

## S

- Saint John N.B., key port of the Eastern Seaboard 441
- Saldanha Bay, 271

### Scheldt River:

- Hover Survey craft, 21
  - Deepening part of the Scheldt, 368
- Sea Islands for future industrial expansion, 27
- North Sea Island feasibility group formed, 456
- Seaforth Dock opened, 45
- Secondary analysis of tidal elements at Mevagissey, 435
- Shaft sinking—conventional cofferdam methods eliminated, 52
- Sheerness, 117, 191, 244
- Sheerness enters the big league, 172
- Shetland, 461
- Shipbuilding and shiprepairing, 24, 69, 109, 158, 201, 235, 282, 334, 373, 406, 451, 498
- Ship lock simulation facility, 86

### Shiprepair facilities:

- Apapa dock, 335
- Basrah, 202
- Ceylon, 160
- Hong Kong, 109, 202
- Italy, 407
- Low cost Dutch Shiplift, 407
- St. John, New Foundland, 24
- South Africa, 406

## S—continued

- Taiwan, 498
- Teneriffe, 202

Ship Research Institute formed in Norway, 201

Ships built by TV, 51

### Shipyards:

- Antwerp, 71
  - Argentine—syncrolift, 159
  - Belgium, 110
  - Belfast, 24
  - Boom year in prospect for U.K. yards, 406
  - Boom in new ship ordering, 498
  - Brazil, 26, 69, 110, 454
  - Cadiz, 109
  - Cochin, 109
  - Galveston, 112
  - Gdansk, 23, 69, 236
  - Gdynia, 26
  - Hong Kong, 282
  - Japan, 282
  - Japan's key to shipbuilding success, 201
  - Kinderdijk, Rotterdam, 337
  - Korea, 71, 158
  - New Orleans, 70
  - St. Nazaire, 201
  - Setenave, 282
  - Singapore, 70
  - Spain, 70, 282, 285, 407, 501
  - Sunderland, 112
  - Sweden, 111, 112, 237, 408, 454
  - Szczecin, 408
  - U.S. Shipyards, \$600 million programme, 160
  - Visagapatnam, 202
  - West Germany, 284
- Shoreham, 33
- Siltation—Pollution prevention better than cure, 321
- Siltmeter data, A new approach to correlation of, 126
- Singapore, 108, 119, 199, 292, 344, 420
- Single Buoy mooring system expedites iron ore exports, 319
- Somalia, 462

### Southampton:

- Port news, 288, 412, 460
- Boat Show, 229
- Communications system inaugurated, 130

### South Africa:

- Capetown, 73
- Saldanha Bay, 271

### Spain:

- Port news, 292
  - Barcelona, 227
  - Cadiz, 339
  - Malaga, 379
- Stability of piles in flowing water, 352
- Survey—hover survey craft, 21

### Swansea:

- A new approach to Syncrolift, 158

## T

- Taiwan, 508
- Takoradi bauxite berth, 5
- Tangier, past and present, 175

### Tanzania:

- Dar Es Salaam, 462
- Teesside, 118, 288
- Terminals, Offshore may solve America's impending energy crisis, 65

## T—continued

### Thailand:

- Port news, 163, 247
- Klong Toey, 119
- Tidal elements, Secondary analysis at Mevagissey, 435
- Tilbury, 32, 196
- Toronto's new harbour entrance, 131
- Toronto a city blessed with foresight, 396
- Torres Strait navigational study, 156
- Tractor trailers at container berths, 87

### Training:

- Model helps solve port planning problems, 57
- Game port people play, 307
- Transportation and the Environment, 179
- Trinity House extends helicopter operations, 95
- Tubarao—world's largest ore port under construction, 263

### Tunnels:

- Channel tunnel, 440
- Construction of Autobahn under Elbe, 314
- Hong Kong tunnel, 147
- Turkey, 419

## U

### U.S.S.R.:

- Odessa, 119
- Unit Load Council, 66, 106, 412
- U.K. Association of Pilotage Authorities, 324
- United, States, 75
- Baltimore, 35, 291

## U—continued

- Delaware, 197
- Houston, 344, 380
- Long Beach, 163, 463
- New Jersey, 290
- New Orleans, 76
- Newport News, Virginia, 310
- New York, 509
- Port Jersey competes for N.Y. container traffic, 238
- Port of Sacramento, 420
- Tampa, 198
- U.S. Dredging monopoly, 29
- Unitisation, Increased benefits derived from, 106

## V

- Vacuum towing tank, World's first, 7
- Venezuela, 508

## W

- Waterjet propulsion, 284, 410
- Waterways inland
- Waterslope at Montech, 363
- Wave recorders optical, 177
- Will offshore bonanza bypass Britain, 477
- World Dredging News, 27, 72, 113, 155, 203, 286, 337, 368, 413, 455, 502
- World Port News, 32, 74, 117, 161, 196, 244, 288, 340, 378, 417, 459, 506
- World's first vacuum towing tank, 7
- World's largest floating rubber pipeline, 455
- World's largest ore port under construction, 263

# Index to Contributors

M. D. Abbott and Aa. Damsgaard, 82  
J. Lindsay Alexander, 49  
Capt. John Bain, 451  
Vincent Basile, 457  
G. W. Brimyard, 47  
M. R. Bull, 175, 309, 361  
J. Carr, 323  
Capt. H. R. Cooper, 42, 137, 223  
Michael Corper, 7  
A. W. Deazeley and E. M. Wilson, 86  
Capt. G. Dudley and A. T. Tuthill, 265  
Gerhard Everwyn, 314, 398  
Gerald Farmer, 57  
N. J. Ferguson, 254  
Donald S. C. Fraser, 356, 396, 441

R. Freer, 5  
H. C. Frijlink, 113  
Jack Frost, 12, 45, 130, 216, 220  
K. J. George, 435  
A. J. M. Harrison, 133  
Peter Iliffe-Moon, 193  
P. H. Kemp, 177  
R. King, 352  
Charles F. Klapper, 363  
M. J. W. Kohler, 217  
J. D. Last and E. W. Roberts, 391  
John H. McGavock, 310  
Remig A. Papp, 88  
F. Thomas Poole, 65, 365, 444

Duncan Rand, 172  
R. A. C. Richards, 54, 227  
J. F. Riddell, 126  
R. P. Rowe, 399  
John R. Simmonds, 307  
Paul Soros, 212, 263  
Anthony Sneath, 482  
W. L. Speight, 271  
Mark Terrell, 9  
George Toles, 369  
E. S. Tooth, 2  
Michael W. Twigg, 472  
Lawrence Webley, 63, 183, 401, 443  
G. P. Wild, 489



8

368, 413,

378, 417,

8